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From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
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Subject: Info-Hams Digest V94 #1180
To: Info-Hams

Info-Hams Digest Wed, 2 Nov 94 Volume 94 : Issue 1180

Today's Topics:
 GB2RS News 30th October 1994
 Need information on ATV interface

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Thu, 27 Oct 1994 19:45:21 +0000
From: dave@llondel.demon.co.uk (David Hough)
Subject: GB2RS News 30th October 1994

Good morning. It's Sunday the 30th of October and here is the GB2RS news
broadcast, prepared by the RSGB and intended for all radio amateurs and
short-wave listeners.

Now this week's headlines:-

Council Member Dave Gourley, G0MJY, has resigned

Novice Licensee interviewed by the BBC

Possible new record for 10GHz operation

It is with regret that the Radio Society of Great Britain announces the
resignation from Council of David Gourley, G0MJY. David represented Zone
'B', Midlands, and his resignation is entirely for personal reasons. The
President and members of Council would like to thank David Gourley for
his contribution to the work of Council and to wish him all good luck

for the future.

The 1995 RSGB President, Clive Trotman, GW4YKL, is to be installed at a reception and dinner during the evening of the 14th of January 1995 at Bridgend, Mid Glamorgan. Anyone requiring tickets should contact Fay Huxley at RSGB Headquarters.

Amateur radio featured in the media last week when BBC Local Radio Three Counties visited Sandy Scouts at their Headquarters on Saturday the 15th of October. The occasion was Jamboree On The Air weekend when they inspected the JOTA Station and interviewed Paul, 2E1BFD for The Breakfast Programme, which was transmitted on Monday the 17th of October.

During the week ending the 15th of October, a major tropo opening affected all bands from two metres up to the 10GHz band. From inital reports many contacts in excess of 400 kilometres were made, with possible a new UK record on 10GHz of 1137km, done jointly by Roy, G3FYX and Ted, G3JMY both in Bristol and SM6ESG. For three days of the week the microwave bands were open right across Europe, with signal levels on the 10GHz the strongest that many people can remember. Any one who worked any station in Europe during the three days, from 70cm and up, is asked to send detailed reports to G3PHO who address is correct in the RSGB call book.

The Grampian UHF repeater, GB3BA, located near Stonehaven was returned to service on Friday the 21st of October at 10am. It was off air for 24 hours to rectify a distortion problem in the receiver. The repeater is on channel RB1, which has its output on 433.025MHz and input on 434.625MHz. Any reports on coverage and/or request for further details should go to the repeater keeper GM4NHI, whose address correct in the RSGB Call Book.

Now some items of HF DX news from the weekly RSGB DX News Sheet which is edited by Brendan McCartney, G4DYO.

From Bahrain, G0OAB expects to be active as A92FV from Saturday the 29th of October, CW only, but length of stay is unknown.

From Micronesia, WV5S and N5OK will sign V63SH and V63OH respectively, from Wednesday the 2nd until Monday the 7th of November. Activity will be mainly CW on the WARC and LF bands with some RTTY.

And from Bermuda, K3DI/P9 will be active from Sunday the 6th until Friday the 11th of November on all bands, with emphasis on the frequencies 7.025, 14.025 and 21.025MHz.

Now the Rally News and we know of one event for today, Sunday the 30th:

This is the Hornsea Amateur Radio Club's East Yorkshire Radio Rally which is being held at The Floral Hall, Hornsea, near Kingston upon Hull. Doors open at 11am, or from 10.30am for disabled visitors. The event features trade stands, a bring and buy stall and special interest groups which includes ATV. Refreshments are available and talk-in is on two metres, channel S22.

Next, the two events we know for the weekend, Saturday the 5th and Sunday the 6th of November:

First the rally for next Saturday the 5th and the Sunday the 6th of November:

The North Wales Radio Rally which is to be held at the Aberconwy Centre, Llandudno, North Wales. Also for this year the new North Wales Theatre will be available. Doors open at 11am, or from 10.30am for disabled visitors. The event features trade stands covering radio, electronics and computer interests, an RSGB Book and Information Stand, a bring and buy stall. Refreshments will be available and talk-in will be on two metres, channel S22. For further details contact Tony, GW0NSR, on 01492 513246.

And now the two events for next Sunday the 6th:

The North Devon Rally which is to be held at the Holsworthy Memorial Hall, Holsworthy, Devon. Doors open at 11am, or from 10.30am for disabled visitors. The event features trade stands, a bring and buy stall. Refreshments will be available and talk-in will be on two metres, channel S22. Further details from G8MXI who is QTHR.

The Tyne and Wear Repeater Group Auction which is to be held at the Fence Houses and District Community Centre, Fencehouses, near Chester-le-Street, County Durham. Doors open at 10.30am for booking goods in, The Auction starts at 12 noon. Further details from Brian, G8FBQ on 0191 388 2913.

Now news of a Rally cancellation and change of contact details:

The Leeds and District Amateur Radio Society wishes to announce that due to circumstances beyond its control the Christmas Rally, scheduled for the 4th of December 1994 has had to be cancelled. Further details from G0IBU who is QTHR.

The Bishop Auckland Amateur Radio Club Radio Rally which is to be held on Sunday the 20th of November has a change of contact person, the new contact is Nick Dingle, G1XNI on 01388 488533.

Now for the HF contest news:

The CQ Worldwide DX SSB Contest finishes at 2359 UTC today, Sunday the 30th of October.This involves all bands 160 - 10 metres but excluding the WARC bands. See the October RadCom page 18 for further details.

The SWL Challenge takes place during this weekend, coinciding with the CQ WW DX Contest. See October RadCom page 25 for full details.

The Worked All Britain LF CW Contest takes place today Sunday the 30th from 1400 to 1800 UTC on the 160, 80 and 40 metre bands. There are sections for Fixed, Portable, Mobile and SWL stations. Full details are available from Gordon, G4SKQ whose address is correct in the RSGB Call Book or via packet at GB7SYP.

The International Police Association Radio Club (IPARC) World Wide Contest is being held next weekend, Saturday the 5th and Sunday the 6th of November. Saturday operation will be CW only and on Sunday the 6th, SSB only on 10 to 80 metres, from 0600 to 1000 UTC and from 1400 to 1800 UTC on both days. Entry logs to DF6VX who is QTHR by the 31st of December. Further details from Mike, G3PGA on 01271 860930 or packet at GB7SWN.

The HA QRP Contest takes place from 0001 on Saturday 6th until 2359 UTC on Sunday the 7th, on 3.5. 3.6MHz CW only. See November RadCom page 19 for further details.

Next some VHF contest news:

Another RSGB 10GHz Summer Cumulative Contest runs from 0900 to 2100 UTC today Sunday the 30th. See April's RadCom for details.

The second RSGB 1.3GHz and 2.3GHz Fixed and Listeners Contest takes place today Sunday the 30th from 1700 to 2100 UTC. See September's RadCom for details.

The fifth and final event of the RSGB 144MHz CW Cumulative Contest will take place from 2030 to 2300 UTC tomorrow, Monday the 31st of October. General rules will apply. Use 4422 summary sheet to show scores for each day, and the best three days will be totalled. Please send all logs plus a single 427 cover sheet for entry. Rule 10 applies. There are two sections; the first for single operator or portable entries, and the other for listeners. The Adjudicator is David Johnson, G4DHF, 65 West Street, Bourne, Lincolnshire PE10 9PA.

The 144MHz CW-Marconi RSGB 24-hour Contest is from 1400 on Saturday the 5th until 1400 UTC on Sunday the 6th. The RSGB 144MHz CW 6-hour Contest

is on Sunday the 6th of November, from 0800 to 1400 UTC. See the September edition of RadCom, page 82 for further details of both these events.

A special event station active this week is ON7FF, Flanders Fields. It will be operated by members of the Radio Club Ypres from next Saturday, the 5th until Sunday the 13th of November. Further details from G0ABZ who is QTHR.

And now the solar factual data:

The period from the 17th to the 24th of October saw a slight decline in solar flux with the geomagnetic field increasing to minor storm levels. Only one flare of any note was reported - an M3.2/1F on the 19th, accompanied by a reported solar wind speed of 1,000Km per second together with type 2 and 4 radio sweeps. An aurora on the 23rd, together with a late evening sporadic E opening on 10 and 6 metres covering much of Europe, caught most people by surprise.

Due to considerable changes in the URSIgram computer distribution system now under way, not all the data is at hand for this report. The sunspot indices peaked at 93 on the 19th before declining to lower levels with the mean being 65 for the period. The solar flux levels declined slightly throughout the period from 92 units on the 17th down to 82 units by the 24th, giving an average of 87 units for the period. The electron fluence levels were mainly at moderate levels, but increased to high levels by the 24th. The geomagnetic field started the period at very quiet levels, being down to an Ap index of only 2 on the 21st; by the 23rd levels had increased considerably up to 'sub storm level' with the Ap index reaching 41 units. A coronal hole is thought to be responsible for the mag storm. The period averaged an Ap of 15 units. The state has been mag alert most of the period. The X-Ray flux has declined from B3.0 on the 20th down to A8.7 by the 24th, giving an average of B1.6; this is still a good level for this period in the solar cycle. The aa indices as reported by the British Geological Survey for the period from the 12th to the 18th of October, declined from 32.7 nanoTeslas on the 12th down to 8.9 nanoTeslas by the 18th, giving an average of 20.1 nanoTeslas, about K3 for the period. Bartells rotation number 2202 started on the 23rd of October.

I'll repeat the figures. Spots - 65; Flux - 87; Ap index - 15; X-ray flux - B1.6.

Now the ionospheric data for Central France:

Not all the data is to hand but the F2 daytime critical frequencies at

Poitiers as reported by Meudon for the period from the 15th to the 20th
of October increased every day from 7.1MHz, up to 9.3MHz by the 20th,
which is the highest level since last February; the period averaged
8.2MHZ. The darkness hour lows have declined from 3.1MHz down to 2.5MHz
and averaged 2.9MHz.

The daytime highs are now taking place around noon, with the darkness
hour lows between 0500 and 0600 hours.

I'll repeat the figures. Highs - 8.2MHz; lows - 2.9MHz.

And lastly the solar forecast:

This week should see a return of a recurrent coronal hole which could
give geomagnetic levels up to sub storm today with possible aurora.
Geomagnetic activity is then expected to steadily decline as the week
proceeds. Solar flux levels are not expected to change much, being about
the 83s as the more quieter side of the sun is in view. Ionospheric MUFs
in the south during daylight hours are expected to reach 21MHz but much
depends on the mag activity. Darkness hours are expected to be around
7.0Mhz. North/south paths are expected to improve on these levels, with
east/west paths becoming easier.

And that's the end of the solar information.

Finally in the main news, SSL has informed the Society that as of last
Wednesday morning, the latest callsigns allocated were in the G0 Victor
Juliet and G7 Tango Uniform series, and Novice calls in the 2 0 Alpha
Juliet and 2 1 Delta Mike series.

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GB2RS is prepared by the Radio Society of Great Britain
and is broadcast in the 80m, 40m, 6m and 2m bands.
Tel +44 1707 659015 Fax +44 1707 645105

Date: 31 Oct 1994 17:31:35 GMT
From: Gianluca Mazzini <gmazzini@deis.unibo.it>
Subject: Need information on ATV interface

> Hi, I'm trying to key an ATV transceiver to send data that is coming out of
> an ethernet card. There is an interface in between but there are several
> problems still, like fitting 10 Mbps (20 Mbaud because of the Manchester line
> code) into 4.5 MHz of the ATV.
>
> Any information would be appreciated.

>
> Andreas Iacovides 5B4SJ

Hi, here i report some sonsideration about your problem.

1) Ethernet use a Manchester line code in order to easy extract
the symbol clock and permitt the carrier sense operation in
the access. This is not necessary for the radio link.
You can convert the code line from Manchester to NRZ.
This gives a gain of factor 2 in the bandwith (10 MBit/s).

2) The use of multilevel digital modulation scheme seem
necessary when the available bandwith is less of the bit rate.
If you have not power problem i suggest you a amplitude
modulation like ASK. This is the most simple. In order
to recovery carrier and symbol timing you can use a differential
scheme.

3) The signal bandwith must be limited without introduce
inter symbol interference. The best filter is the raised
cosine. Other filters, as a Butterworth with 4 pole, can used
if you do a correct project of the filter.

4) A modulation with spectral efficiency 3 seem to be
necessary ! (4.5 * 3 = 13.5 MHz > 10 MBit/s)
Try a 8-ASK

5) For other information see:
DIGITAL COMMUNICATION
John. J. Proakis
McGraw HILL

73 IK4LZH
 John

Date: 31 OCT 94 10:44:50
From: randolph@est.enet.dec.com (Tom Randolph)

References<gerdeman.67.2EAE6159@alrc.usbm.gov> <7@pickburn.demon.co.uk>,
<5o5U7sT.wcoyle@delphi.com>
Subject: Re: HOW TO LEARN CW???

In article <5o5U7sT.wcoyle@delphi.com>, wcoyle@delphi.com writes...
>Computer generated random letters are the way to go. Only
>thing that got me to 13wpm was my PC. After all that random,
>actual words are easy!
>N3OGH

Well, that depends... I actually find I can copy random letters easier than plain text.Not sure why this works, but the difference is about 2 WPM. I think I tend to start reading the text, and as you know, once you do that, it's all over...

-Tom R. N1OOQ randolph@est.enet.dec.com

End of Info-Hams Digest V94 #1180
